CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.07/KRIDL/CEMENT/2014-15 Date: 11.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

Note:

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Job No.: CTCE/BBMP/W.No.07/KRIDL/SAND/2014-15 : 11.07.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014

Date of Testing : 11.07.2014

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	76	7.60	7.60	92.4	90-100
2.36	125	12.50	20.10	79.9	75-100
1.18	213	21.30	41.40	58.6	55-90
600 Micron	197	19.70	61.10	38.9	35-59
300 Micron	272	27.20	88.30	11.7	8-30
150 Micron	86	8.60	96.90	3.1	0-10

Note:

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Job No.: CTCE/BBMP/W.No.07/KRIDL/AGG/2014-15 : 11.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014

Date of Testing : 11.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	955	3.82	3.82	96.18	95-100
20	15657	62.63	66.45	33.55	30-70
10	5178	20.71	87.16	12.84	10-35
4.75	2536	10.14	97.30	2.70	0-5

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Job No.: CTCE/BBMP/W.No.07/KRIDL/CEMENT/2014-15 Date: 14.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	27.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	465 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.07/KRIDL/SAND/2014-15 : 14.07.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014

Date of Testing : 14.07.2014

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	76	7.60	7.60	92.4	90-100
2.36	143	14.30	21.90	78.1	75-100
1.18	216	21.60	43.50	56.5	55-90
600 Micron	184	18.40	61.90	38.1	35-59
300 Micron	265	26.50	88.40	11.6	8-30
150 Micron	95	9.50	97.90	2.1	0

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Job No.: CTCE/BBMP/W.No.07/KRIDL/AGG/2014-15 : 14.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014

Date of Testing : 14.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	942	3.77	3.77	96.23	95-100
20	15623	62.49	66.26	33.74	30-70
10	5214	20.86	87.12	12.88	10-35
4.75	2637	10.55	97.66	2.34	0-5

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Job No.: CTCE/BBMP/W.No.07/KRIDL/CEMENT/2014-15 Date: 16.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	450 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.07/KRIDL/SAND/2014-15 : 16.07.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014

Date of Testing : 16.07.2014

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	68	6.80	6.80	93.2	90-100
2.36	151	15.10	21.90	78.1	75-100
1.18	212	21.20	43.10	56.9	55-90
600 Micron	194	19.40	62.50	37.5	35-59
300 Micron	248	24.80	87.30	12.7	8-30
150 Micron	102	10.20	97.50	2.5	0-10

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Job No.: CTCE/BBMP/W.No.07/KRIDL/AGG/2014-15 : 16.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014

Date of Testing : 16.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	978	3.91	3.91	96.09	95-100
20	15237	60.95	64.86	35.14	30-70
10	5267	21.07	85.93	14.07	10-35
4.75	2789	11.16	97.08	2.92	0-5

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Job No.: CTCE/BBMP/W.No.07/KRIDL/CEMENT/2014-15 Date: 19.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	115 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.07/KRIDL/SAND/2014-15 : 19.07.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014

Date of Testing : 19.07.2014

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	61	6.10	6.10	93.9	90-100
2.36	132	13.20	19.30	80.7	75-100
1.18	198	19.80	39.10	60.9	55-90
600 Micron	212	21.20	60.30	39.7	35-59
300 Micron	278	27.80	88.10	11.9	8-30
150 Micron	83	8.30	96.40	3.6	0-10

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Job No.: CTCE/BBMP/W.No.07/KRIDL/AGG/2014-15 : 19.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014

Date of Testing : 19.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	964	3.86	3.86	96.14	95-100
20	15623	62.49	66.35	33.65	30-70
10	5078	20.31	86.66	13.34	10-35
4.75	2789	11.16	97.82	2.18	0-5

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Job No.: CTCE/BBMP/W.No.07/KRIDL/CUBE/2014-15 18.08.2014

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.07.2014	18.08.2014	8.242	486.2	21.61
2	21.07.2014	18.08.2014	8.291	493.5	21.93
3	21.07.2014	18.08.2014	8.264	504.3	22.41

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.07/KRIDL/CUBE/2014-15 20.08.2014

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.07.2014	20.08.2014	8.184	475.8	21.15
2	23.07.2014	20.08.2014	8.265	502.7	22.34
3	23.07.2014	20.08.2014	8.314	489.6	21.76

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Job No.: CTCE/BBMP/W.No.07/KRIDL/CUBE/2014-15 20.08.2014

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014
Sample ID	: Road Concrete
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.07.2014	20.08.2014	8.345	502.1	22.32
2	23.07.2014	20.08.2014	8.325	492.5	21.89
3	23.07.2014	20.08.2014	8.368	511.9	22.75

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Reference	: AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2014	22.08.2014	8.235	491.5	21.84
2	25.07.2014	22.08.2014	8.267	496.7	22.08
3	25.07.2014	22.08.2014	8.319	509.8	22.66

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Reference : AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2014	22.08.2014	8.395	514.6	22.87
2	25.07.2014	22.08.2014	8.312	492.7	21.90
3	25.07.2014	22.08.2014	8.287	479.5	21.31

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the work : Improvements of roads and drains in Kuvempu Layout in Kempapura Ward No. 07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/25/2014-15 Dated: 09.07.2014

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.07.2014	25.08.2014	8.268	501.6	22.29
2	28.07.2014	25.08.2014	8.391	516.4	22.95
3	28.07.2014	25.08.2014	8.142	485.8	21.59

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Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2014	27.08.2014	8.372	515.3	22.90
2	30.07.2014	27.08.2014	8.251	498.2	22.14
3	30.07.2014	27.08.2014	8.115	488.5	21.71

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